

Exhibit P-40, Budget Item Justification Sheet								Date: February 2004				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)								P-1 Item Nomenclature: FIRE SUPPORT SYSTEMS				
Program Element: 0206211M Divisions (Marine)				Code: B	Other Related Program Elements:							
	Prior Years			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty												
Gross Cost	3.6			33.4	28.2	10.2	2.2	0.0	0.0	0.0	0.0	74.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3.6			33.4	28.2	10.2	2.2	0.0	0.0	0.0	0.0	74.0
Initial Spares				0.0	0.9	0.2	0.5	0.0	0.0	0.0	0.0	1.6
Total Proc Cost	3.6			33.4	29.1	10.4	2.7	0.0	0.0	0.0	0.0	65.2
Flyaway U/C												
Wpn Sys Proc U/C												

Target Location Designation and Hand-Off System (TLDHS) - Provides fire support observers/controllers (OCs) with the ability to: observe their area of interest, quickly and accurately locate ground targets, and digitally request and coordinate target engagements by Field Artillery (FA), Close Air Support (CAS), and Naval Surface Fire Support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. TLDHS is comprised of and integrates two major subsystems: the Targeting Subsystem and the Target Hand-Off Subsystem (THS). USMC MS III was 2Q03.

Improved Position Azimuth Determination System (IPADS) - The IPADS is a High Mobility Multipurpose Wheeled Vehicle (HMMWV) mounted precision survey system. It will consist of an inertial navigation system and a digital communication device. The IPADS will employ current technology that will provide highly precise and accurate survey data passed through a digital link to artillery and target acquisition assets.

Mortar Ballistic Computer (MBC) - MBC will automate the computation of firing solutions and provide the Mortar Fire Direction Center with a capability to compensate for meteorological conditions and propellant temperature, thereby increasing the responsiveness and accuracy of mortar fires. It will provide the primary means by which mortar fire direction centers at the section and platoon levels convert requests for fire into appropriate firing data and fire commands. The MBC will replace the M16 and M19 plotting boards, and mortar and tabular firing tables.

Cost of War (COW) systems/equipment - Fire Support Systems were directed via Urgent Needs Statements (UNS) to procure several systems in support of Operation Enduring Freedom (OEF) / Operation Iraqi Freedom (OIF) during FY 2003. These equipment include the following: Forward Air Controller (FAC) Suite PRC-148 Radio, FAC Suite Ground Laser Target Designator (GLTD II), FAC Suite PRC-117 Radio, FAC Suite PVS-15 Radio, FAC Suites (InfraRed Marker), II Marine Liaison Element (MLE) Equipment, Leica Viper II, Provisional Mortar Ballistic Computer (PMBC), and PRC 117F/150 II MLE Equipment. These systems are designed to allow Forward Observers (FO) and Forward Air Controllers (FAC) to quickly locate ground targets and provide accurate firing data to Field Artillery and other Fire Support Systems.

Exhibit P-40a, Budget Item Justification for Aggregated Items										Date: February 2004				
Appropriation / Budget Activity							P-1 Item Nomenclature:							
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)							FIRE SUPPORT SYSTEMS							
Procurement Items	Code	UOM	Prior Years		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog	
TLDHS	A	D	3.6		9.1	28.2	0.0	0.0	0.0	0.0	0.0	0.0	40.9	
		Q												
LEICA VIPER II (COW)	A	D	0.0		0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
		Q												
IMPROVED POSITION AZIMUTH DETERMINATION														
SYSTEM	A	D	0.0		0.0	0.0	6.6	0.3	0.0	0.0	0.0	0.0	7.0	
		Q												
MORTAR BALLISTIC COMPUTER	A	D	0.0		0.0	0.0	3.6	1.9	0.0	0.0	0.0	0.0	5.5	
		Q												
FAC SUITE (PRC-148) (COW)	A	D	0.0		0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
		Q												
FAC SUITE GLTD II (COW)	A	D	0.0		14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	
		Q												
FAC SUITE PRC-117 (COW)	A	D	0.0		2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	
		Q												
FAC SUITE PVS-15 (COW)	A	D	0.0		1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
		Q												
FAC SUITES (IR MARKER) (COW)	A	D	0.0		0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
		Q												
II MLE EQUIPMENT (COW)	A	D	0.0		2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	
		Q												
MORTAR BALLISTIC COMPUTER (COW)	A	D	0.0		1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
		Q												
PRC 117F/150 II MLE EQUIP (COW)	A	D	0.0		1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
		Q												

Exhibit P-40, Budget Item Justification Sheet								Date: February 2004				
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)						P-1 Item Nomenclature: IMPROVED POSITION AZIMUTH DETERMINATION SYSTEM (IPADS)						
Program Elements: 0206211M Divisions (Marine)				Code: A	Other Related Program Elements:							
	Prior Years			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total Prog
Proc Qty						27						
Gross Cost	0.0			0.0	0.0	6.6	0.3	0.0	0.0	0.0	0.0	6.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0			0.0	0.0	6.6	0.3	0.0	0.0	0.0	0.0	6.9
Initial Spares	0.0			0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.6
Total Proc Cost	0.0			0.0	0.0	6.7	0.8	0.0	0.0	0.0	0.0	7.5
Flyaway U/C												
Wpn Sys Proc U/C												
IMPROVED POSITION AZIMUTH DETERMINATION SYSTEM (IPADS) - The IPADS is a High Mobility Multipurpose Wheeled Vehicle (HMMWV) mounted precision survey system. It will consist of an inertial navigation system and a digital communication device. The IPADS will employ current technology that will provide precise and accurate survey data passed through a digital link to artillery and target acquisition agencies.												

Exhibit P-5, Weapon WPN SYST Cost Analysis			Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)			P-1 Line Item Nomenclature: IMPROVED POSITION AZIMUTH DETERMINATION SYSTEM (IPADS)			Weapon System Type:			Date: February 2004	
Weapon Svstem Cost Elements	ID				FY 03			FY 04			FY 05		
	CD				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
					\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
IPADS											5982	27	221550
Contractor Consulting Services											242		
Special Purpose Test Equipment											350		
Integrated Logistics Support											68		
Factory Training											5		
TOTAL IPADS											6647		

Exhibit P-5a, Budget Procurement History and Planning									Date: February 2004	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)				Weapon System Type:		P-1 Line Item Nomenclature: IMPROVED POSITION AZIMUTH DETERMINATION SYSTEM (IPADS)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
IPADS FY 05	TBD	FFP-IDIQ	TACOM-Rock Island Rock Island, IL	Mar-05	Dec-05	27	221550	No	No	TBD
REMARKS:										

Exhibit P-20, Requirements Study				Appropriation/Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)				Date: February 2004			
P-1 Line Item Nomenclature (Include DODIC for Ammunition Items): IMPROVED POSITION AZIMUTH DETERMINATION SYSTEM (IPADS)				Admin Leadtime (after Oct 1):				Prod Leadtime:			
Line Descriptions: (Enter name of Sub-BLI Item Here)				FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Buy Summary						27					
Unit Cost						221.6					
Total Cost						5981.9					
Asset Dynamics											
Beginning Asset Position								27	27	27	
Deliveries from: FY 2004 Funding											
Deliveries from: FY 2005 Funding							27				
Deliveries from: FY 2006 Funding											
Deliveries from Subsequent Years Funds											
Other Gains											
Combat Losses											
Training Losses											
Test Losses											
Other Losses											
Disposals/Retirements/Attritions											
End of Year Asset Position							27	27	27	27	
Inventory Objective or Current Authorized Allowance											
Inventory Objective 27		Actual Training Expenditures		Other than Training Usage		Disposals (Vehicles/Other)		Vehicles Eligible for Replacement		Aircraft: TOAI	
Assets Rqd for Combat Loads:		thru FY XXXX		thru FY XXXX		thru FY XXXX		FY 2004		PAA: TAI	
WRM Rqmt:		FY XXXX		FY XXXX		FY XXXX		FY 2005		Attrition Res	
Pipeline:		FY XXXX		FY XXXX		FY XXXX		Augment		BAI	
Other:		FY XXXX		FY XXXX		FY XXXX				Inactive Inv	
Total:										Storage	
Remarks:											

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